



State of Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form - DMCEF2011R1

Issuing Authority - Nita Bolz, Scientific Director

Approval date: 03/10/11

Effective date: 03/10/11

Archive date: Active

DataMaster DMT Certification Form

Instrument # 100347Analyst ChuckDate 3/24/11

Supervised certification
Brandi Barnett

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp
 - ii. Bias
 - iii. Cooler
 - iv. Chopper Frequency
 - b. Set RFI ☒
 - c. Adjust barometer reading, if needed ☒
 - d. Adjust volume setting, if needed ☒
 - e. Print Technician Screen (attached) ☒
3. Print Calibration Factors (attached) ☒
4. Volume Test - Minimum 1400 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 2/1/13
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13
 - iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 1/1/12
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 05611200A3 Exp 3/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/13
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/11
 1. Simulator Calibration Date 10/18/10 SN DR 6267
 - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 6/2/11
 1. Simulator Calibration Date 8/4/10 SN SD 1202
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 03/24/2011
Time: 11:05:56

VERSIONS

DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 44.6°C	PASSED

PUMP INFO

Flow Rate = 5.257 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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2 of 18 JMB
WF

Technician Screen

DATAMASTER dmt: 100347

Date: 03/24/2011

Time: 11:19 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 45.4°C

Current Barometer 29.5 in

Volume (Ltr) 1.53

Settings

Lamp: 2.23 V

Bias: 79 V

Cooler: 1.89 V

Chopper: 553 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.527 V

3 of 18
WF-8MB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100347

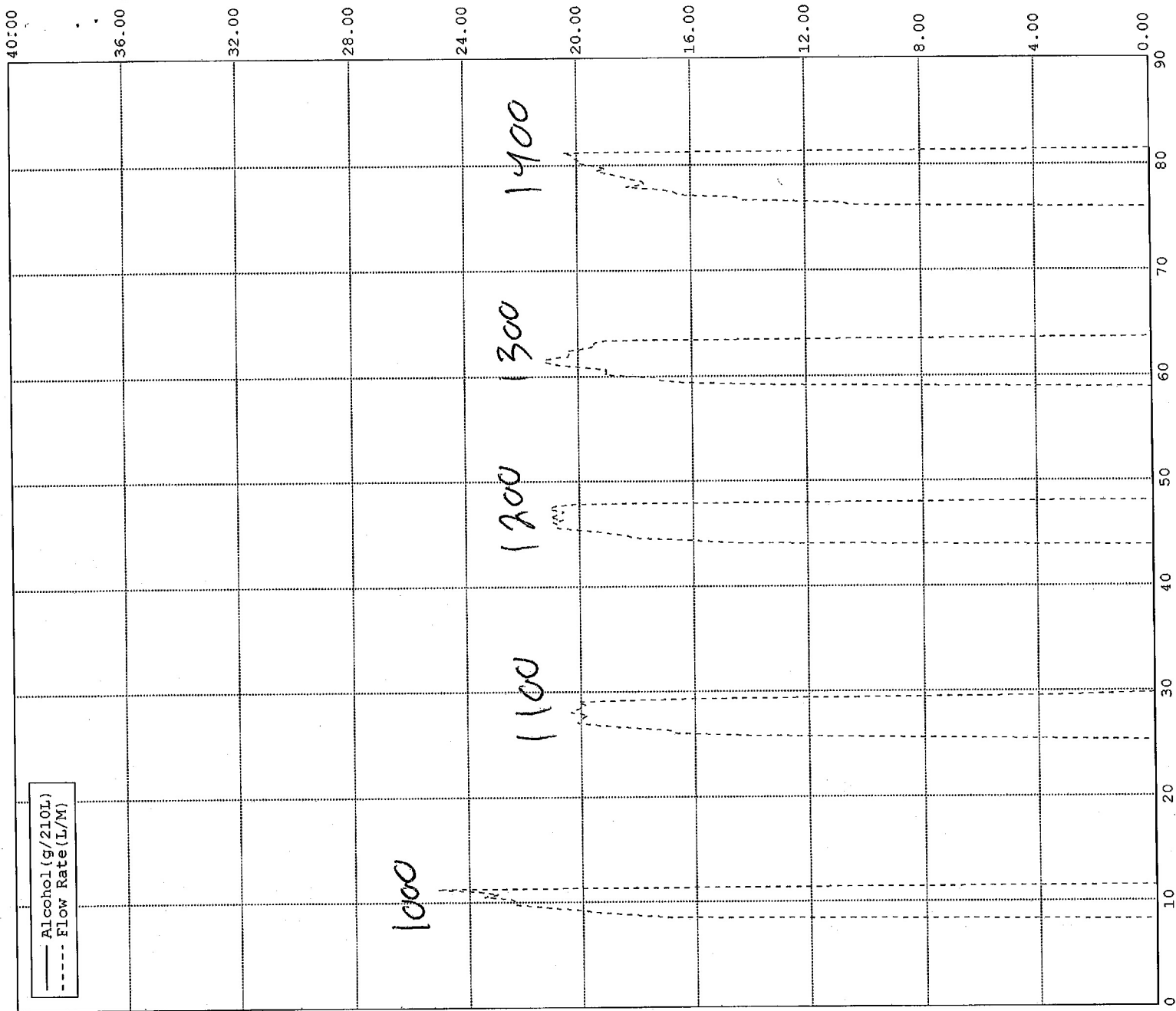
Date: 03/22/2011
Time: 14:26:48

SUPERVISOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca	=	0.1000		
CAL	=	0.967916	0.800	<= CAL < 1.200
b1	=	0.0002	0.0000	<= b1 < 0.0040
b2	=	0.0053	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0921	0.0500	<= Xq < 0.2000
a21	=	1.175203	1.050	<= a21 < 1.300
a31	=	0.445516	0.300	<= a31 < 0.800

4 of 18
WF-BMB



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100347

Date: 03/24/2011

Time: 11:22:31

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

MIN VOLUME

OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

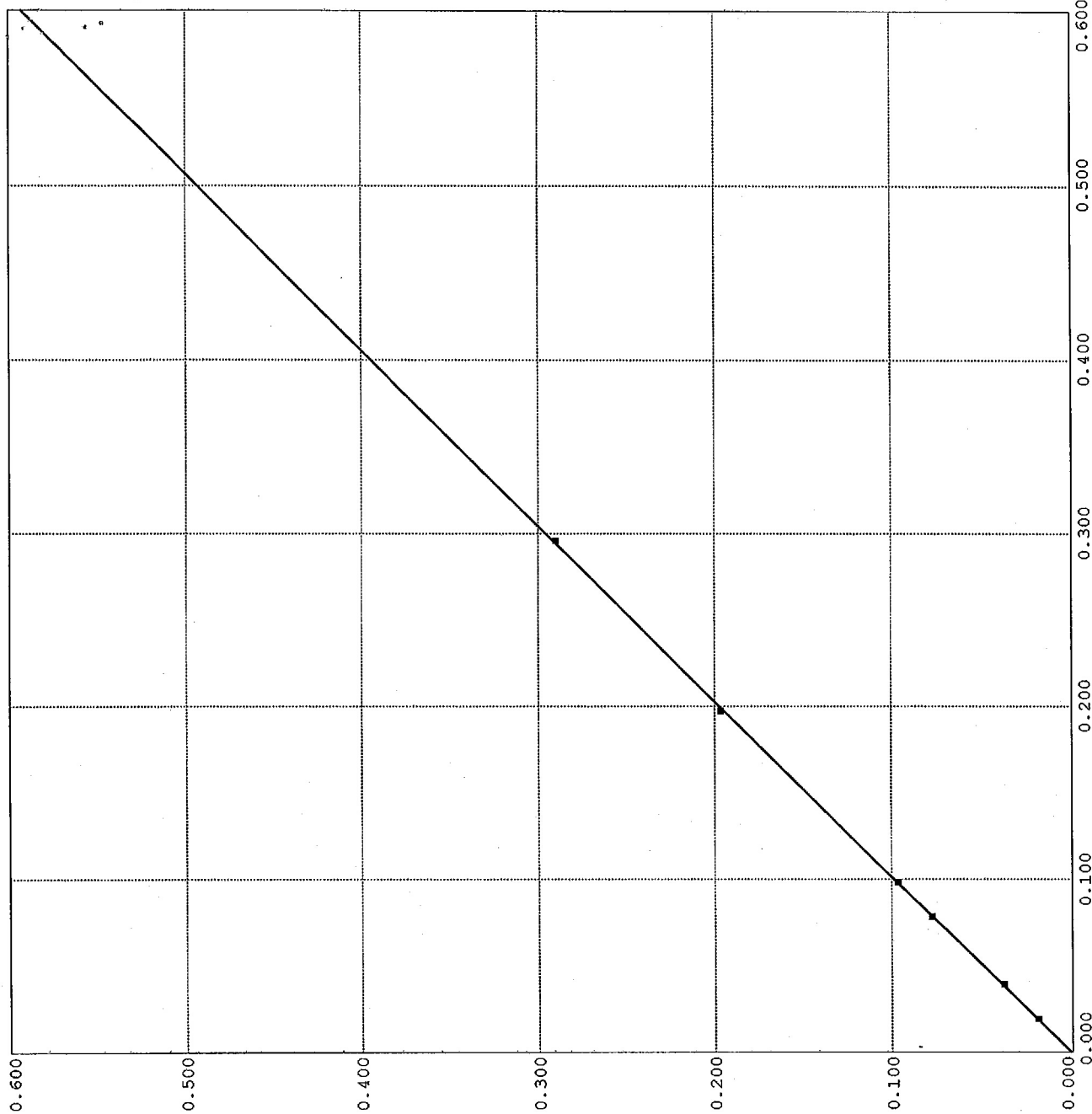
TARGET AT 29.50: 0.078

LOT #: 33609080A1

EXPIRATION: 01/01/2012

TEST TYPE	TIME	RESULT
DIAGNOSTIC CHECK	11:23	PASSED
BLANK TEST	11:24	0.000
INTERNAL STANDARD	11:24	VERIFIED
EXTERNAL STANDARD	11:24	0.079
BLANK TEST	11:25	0.000
SUBJECT SAMPLE	11:26	0.000
BLANK TEST	11:27	0.079
EXTERNAL STANDARD	11:28	0.000

5 of 18
WF BMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100347

Date: 03/24/2011
 Time: 11:43:41

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0196	0.0005
0.039	0.0388	0.0004
0.078	0.0784	0.0005
0.098	0.0972	0.0004
0.197	0.1974	0.0005
0.295	0.2908	0.0008

SLOPE = 0.986609
 R² = 0.999939

6 of 18 MB
 WF MB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100347

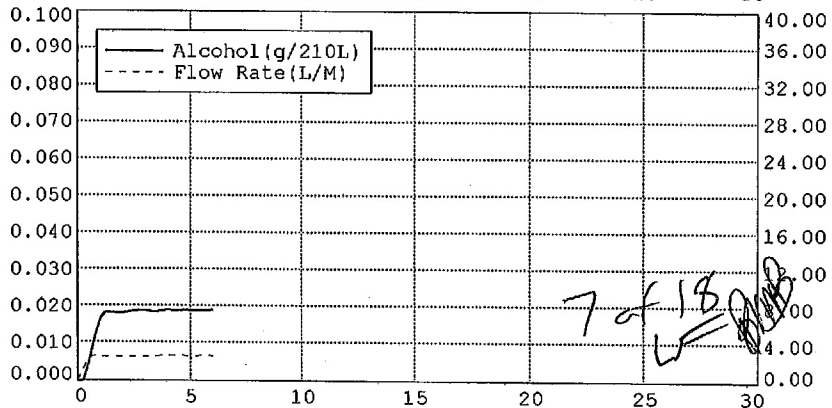
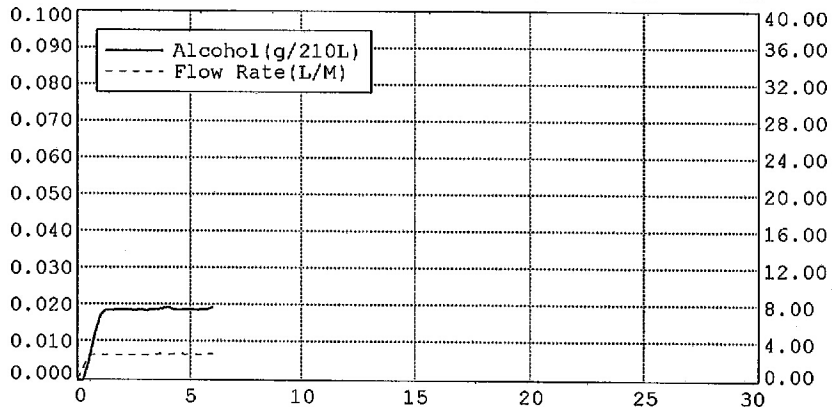
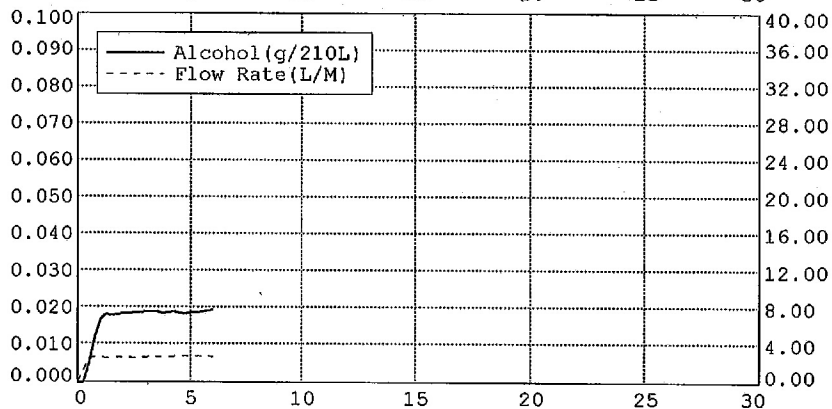
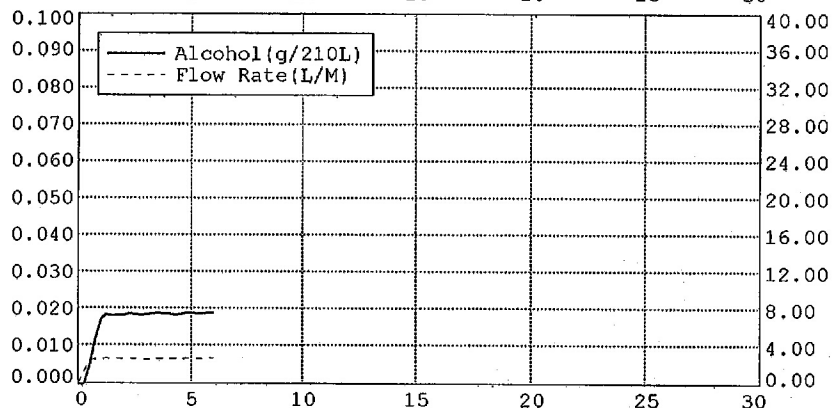
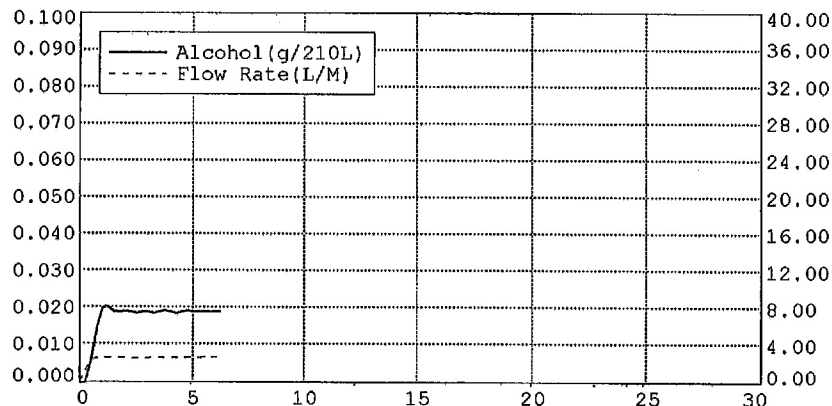
Date: 03/24/2011
Time: 11:43:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.51; 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:45
INTERNAL STANDARD	VERIFIED	11:45
EXTERNAL STANDARD	0.020	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.019	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.019	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.020	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.020	11:49
BLANK TEST	0.000	11:50

Average = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100347

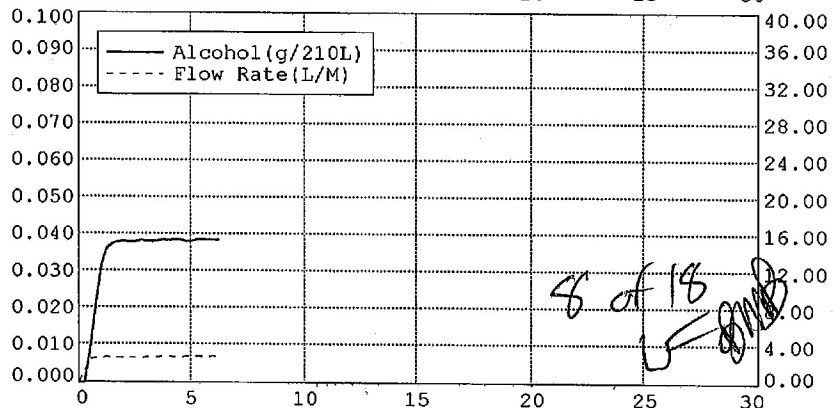
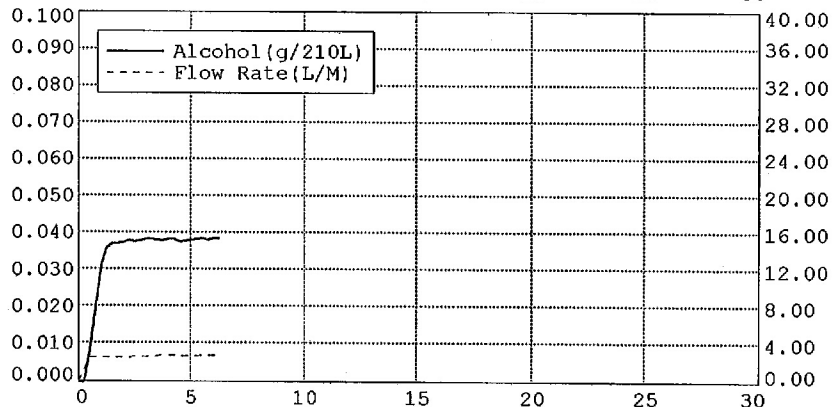
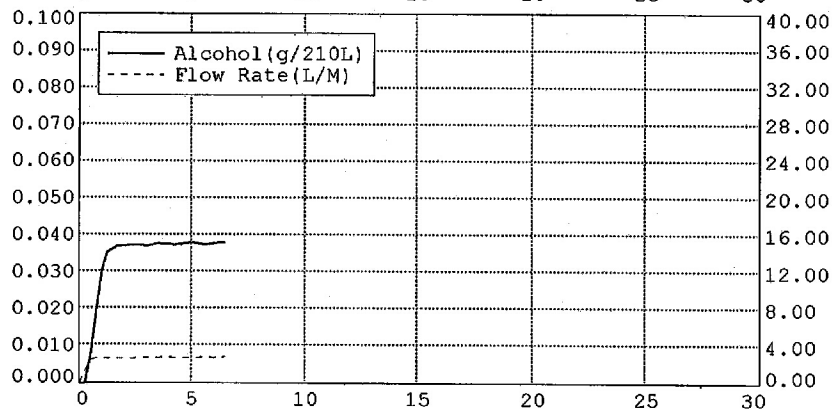
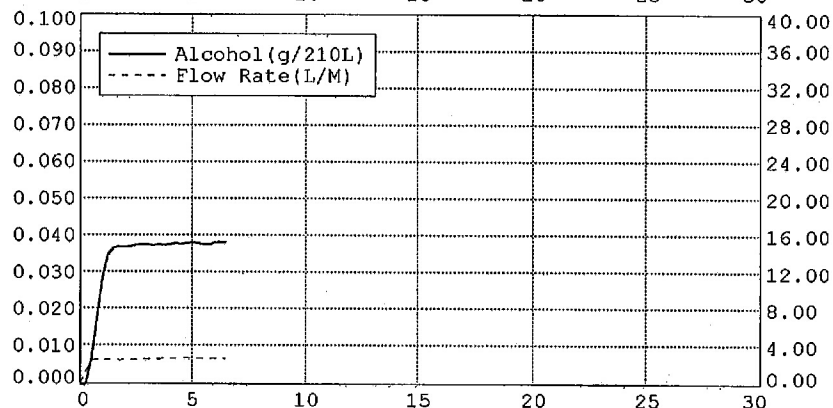
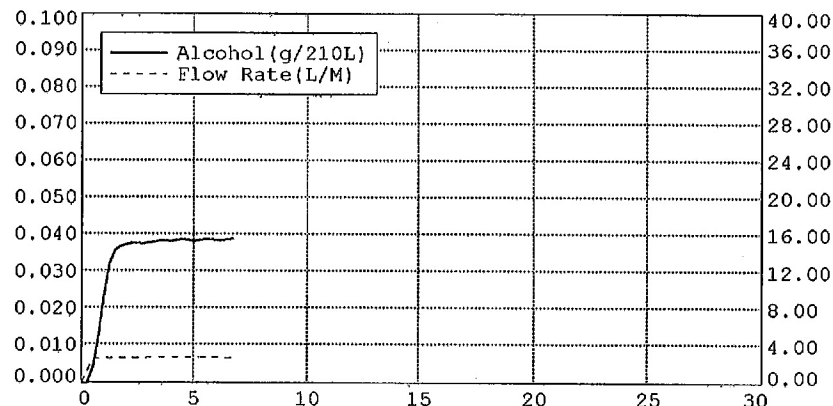
Date: 03/24/2011
Time: 13:01:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.49: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:03
INTERNAL STANDARD	VERIFIED	13:03
EXTERNAL STANDARD	0.039	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.039	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.038	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.039	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.039	13:07
BLANK TEST	0.000	13:08

Average = 0.0388
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100347

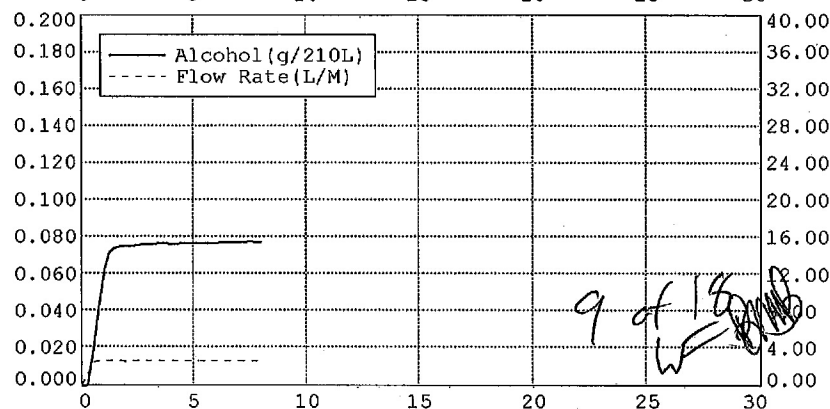
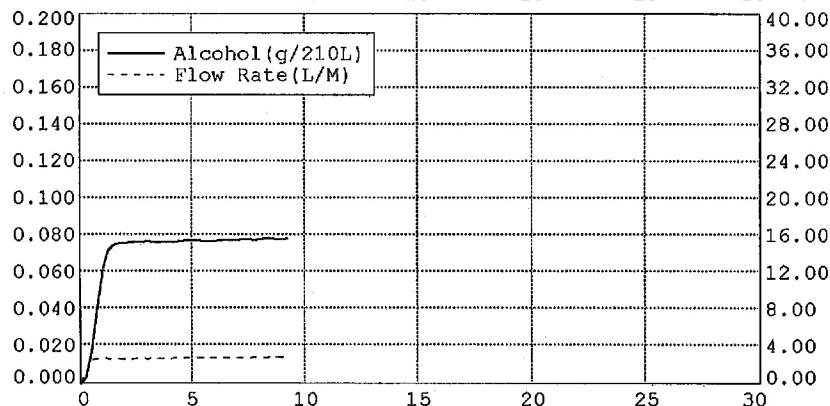
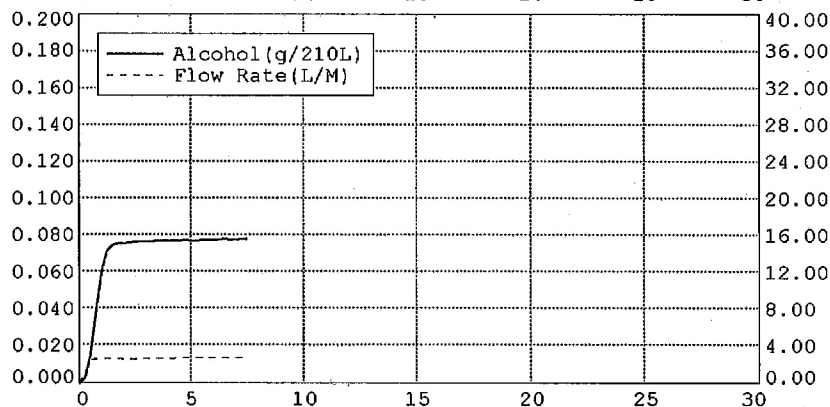
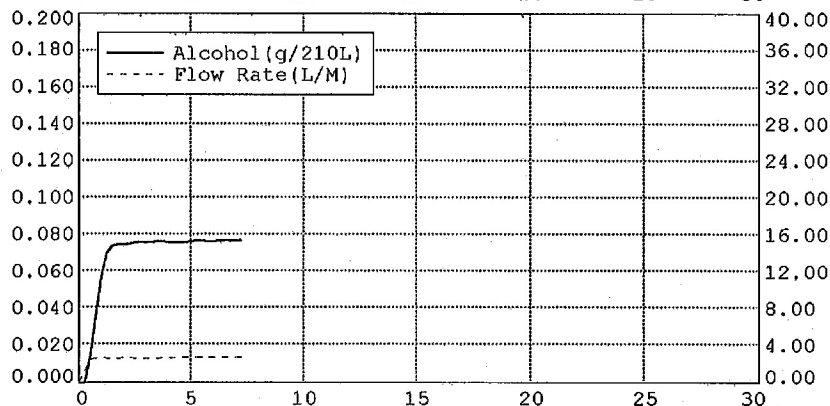
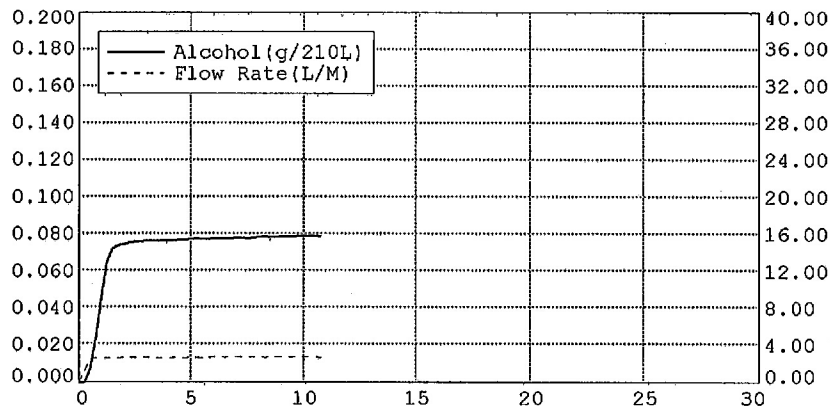
Date: 03/24/2011
Time: 13:11:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
EXTERNAL STANDARD	0.079	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.078	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.078	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.079	13:16
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.078	13:17
BLANK TEST	0.000	13:18

Average = 0.0784
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100347

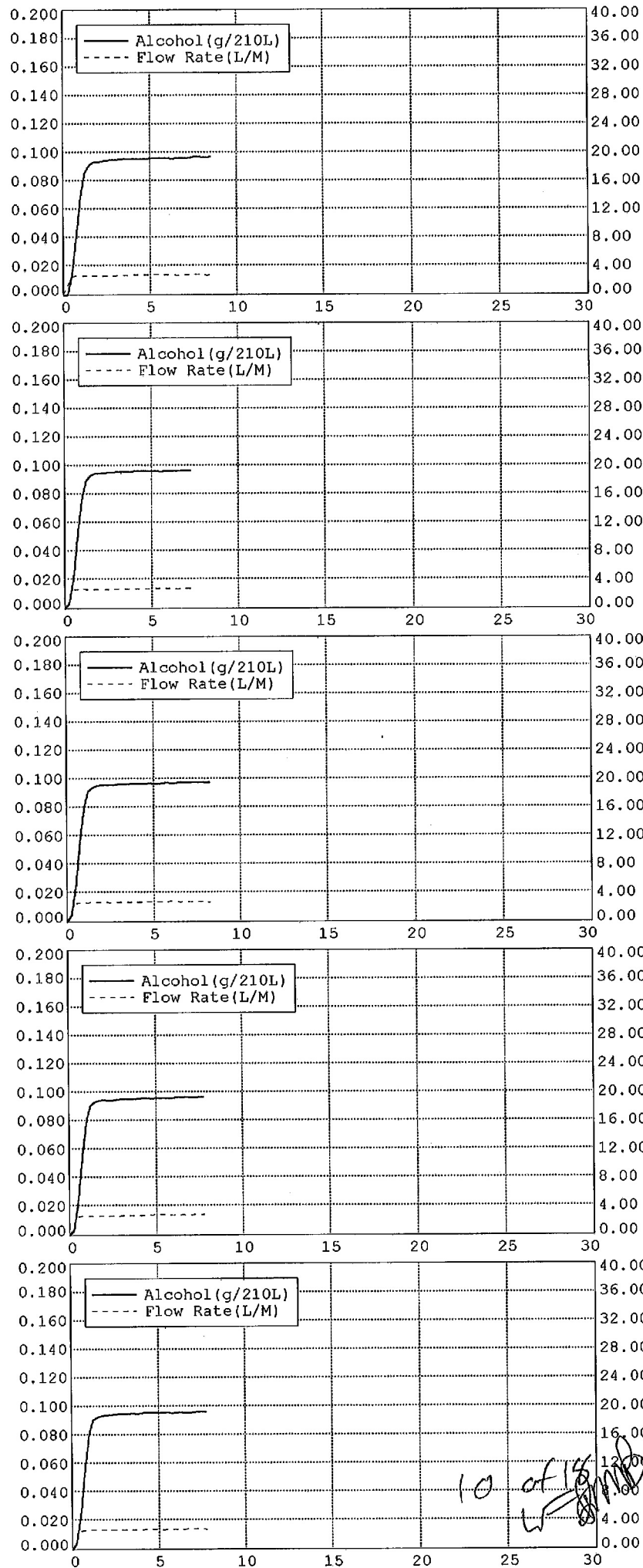
Date: 03/24/2011
Time: 13:20:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.48: 0.098
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.097	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.097	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.098	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.097	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.097	13:27
BLANK TEST	0.000	13:28

Average = 0.0972
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100347

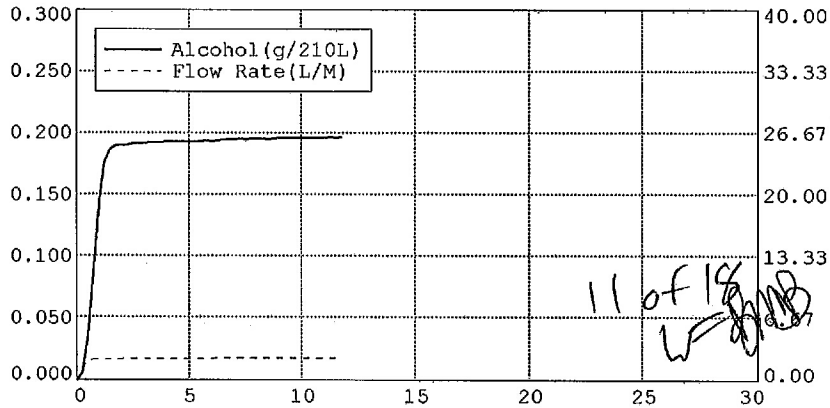
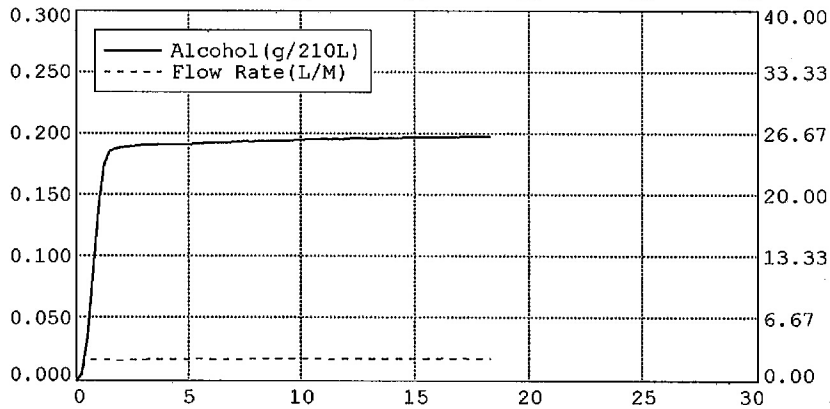
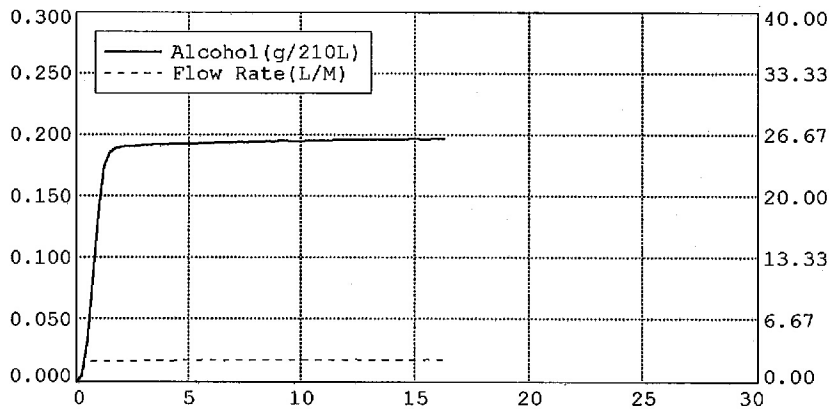
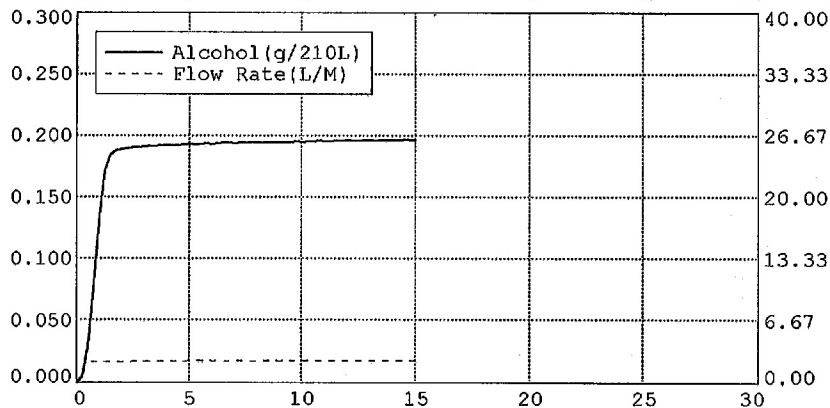
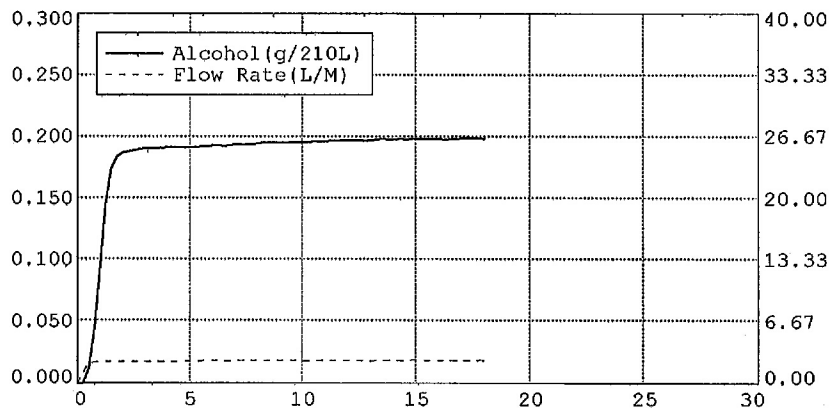
Date: 03/24/2011
Time: 13:33:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.47: 0.197
LOT #: 05611200A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
EXTERNAL STANDARD	0.198	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.197	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.197	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.198	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.197	13:40
BLANK TEST	0.000	13:41

Average = 0.1974
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100347

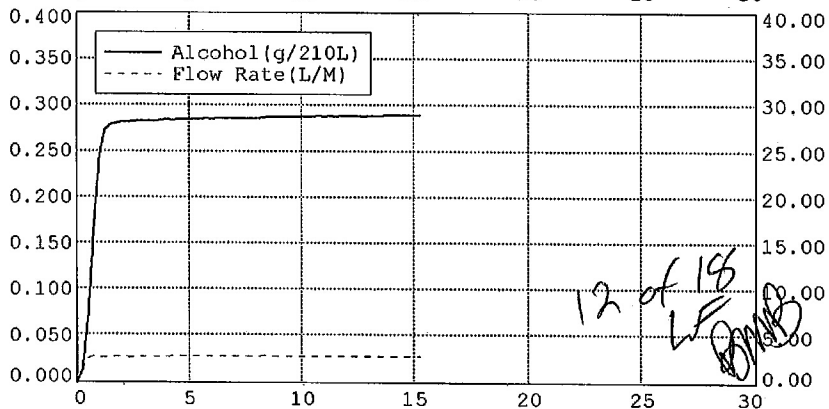
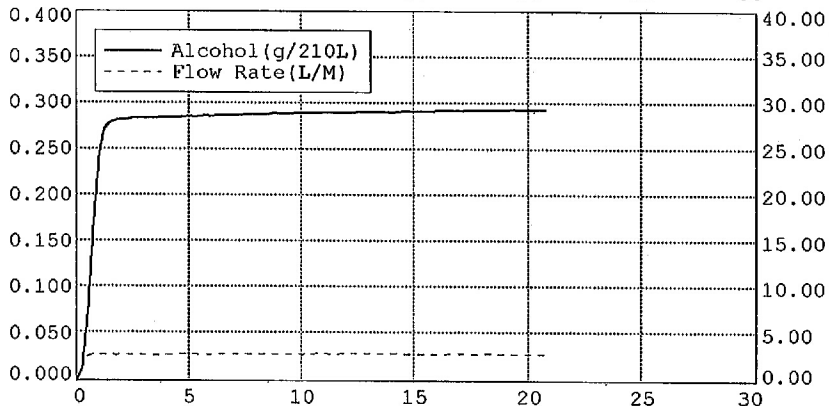
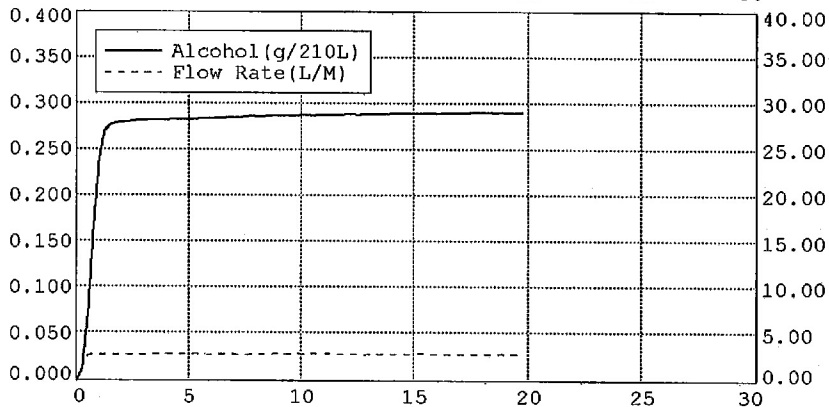
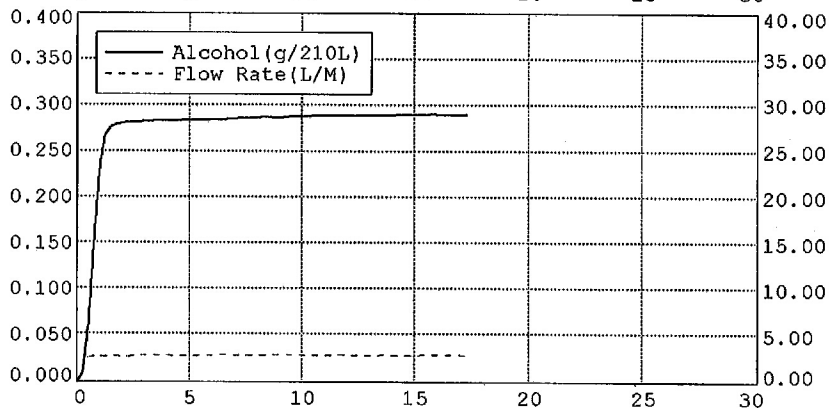
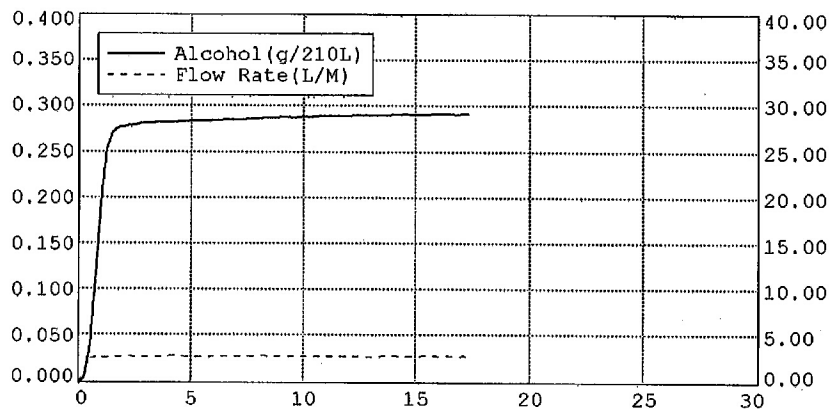
Date: 03/24/2011
Time: 13:43:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.47: 0.295
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:44
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.291	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.290	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.291	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.292	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.290	13:51
BLANK TEST	0.000	13:51

Average = 0.2908
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100347

Date: 03/24/2011
 Time: 14:03:23

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE TEST
 OPERATOR'S #: XXXX

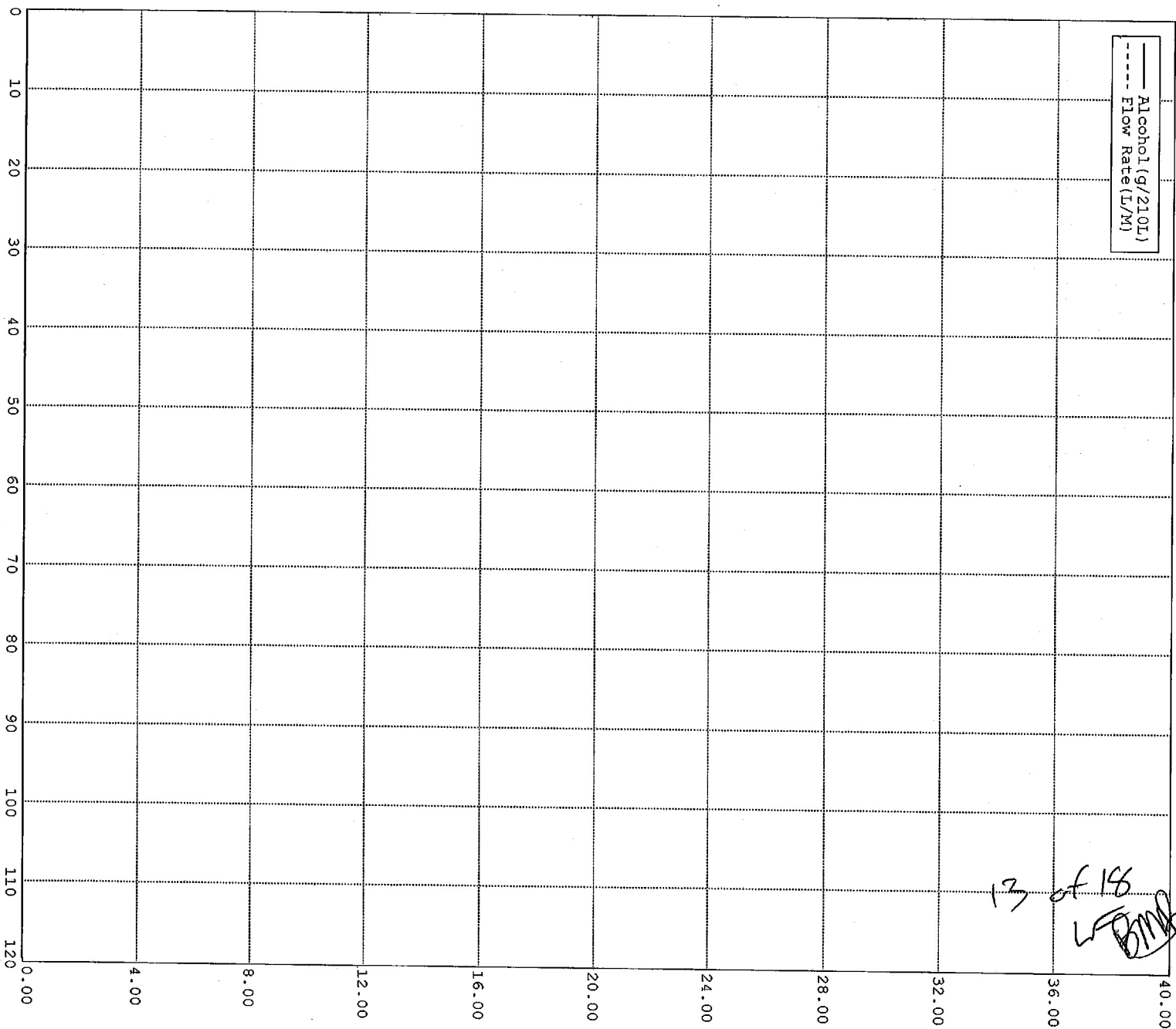
DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.46: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:04
BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	0.079	14:04
BLANK TEST	0.000	14:05
SUBJECT SAMPLE	INCOMPLETE	14:07

Alcohol (g/210L)

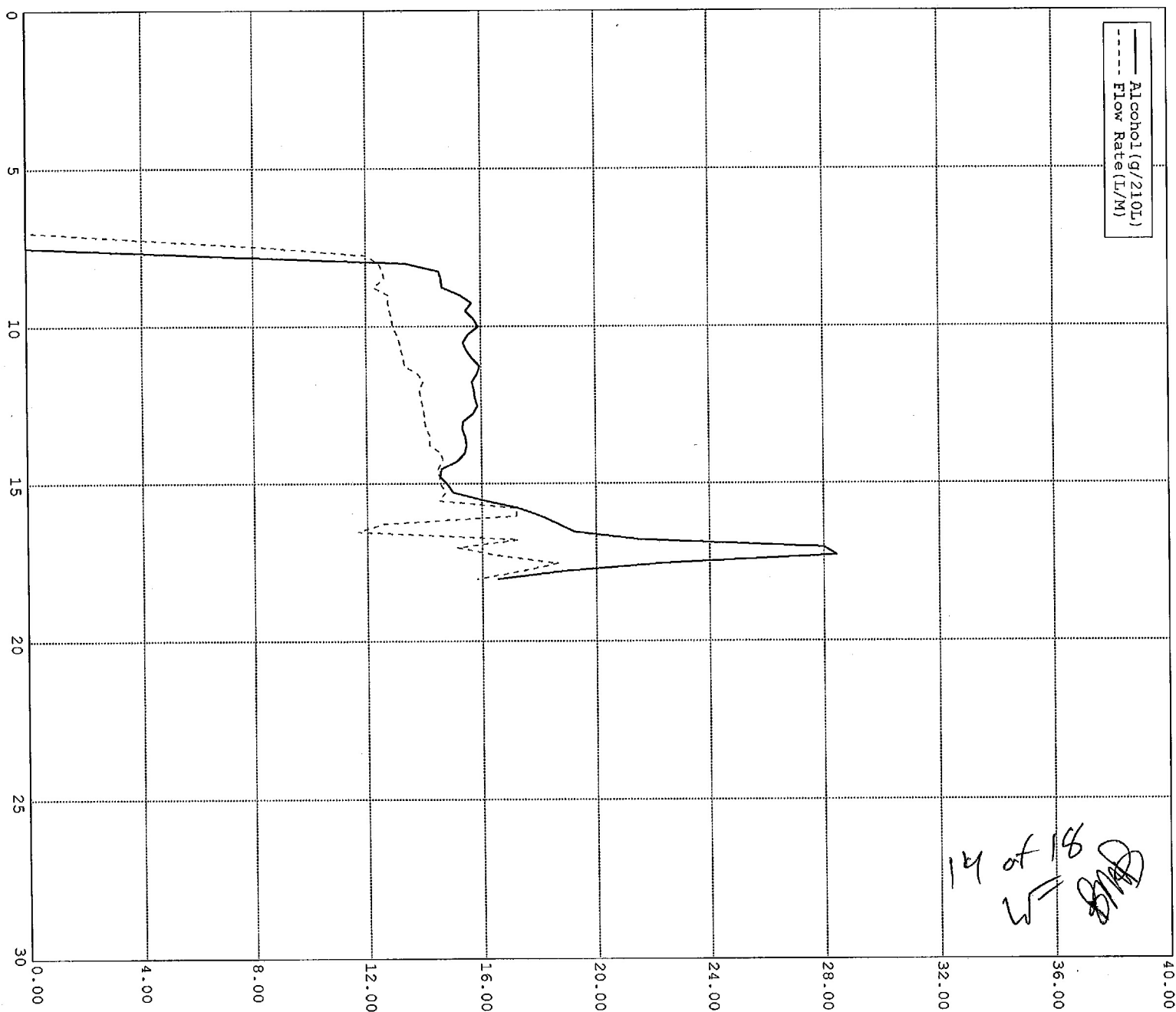
 Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100347Date: 03/24/2011
Time: 14:13:47SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.46: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

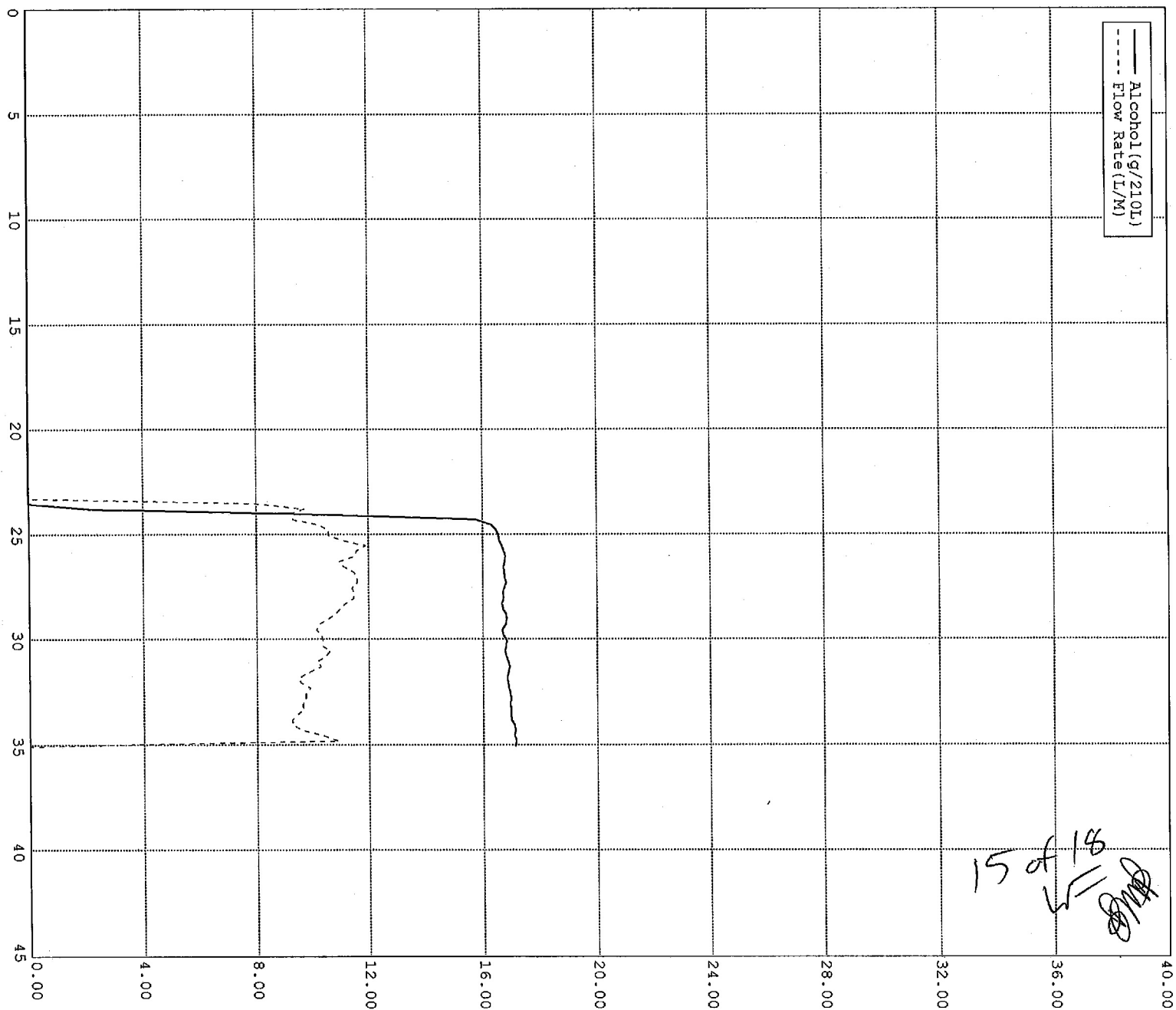
DIAGNOSTIC CHECK	PASSED	14:14
BLANK TEST	0.000	14:14
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.078	14:15
BLANK TEST	0.000	14:16
SUBJECT SAMPLE	Invalid	14:17



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100347Date: 03/24/2011
Time: 14:29:31SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
ETHANOL AND ACETONE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.46: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 14:30
INTERNAL STANDARD	0.000 14:31
EXTERNAL STANDARD	VERIFIED 14:31
BLANK TEST	0.079 14:31
BLANK TEST	0.000 14:32
SUBJECT SAMPLE	INTERFERENCE 14:32



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100347

Date: 03/24/2011
 Time: 14:22:04

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

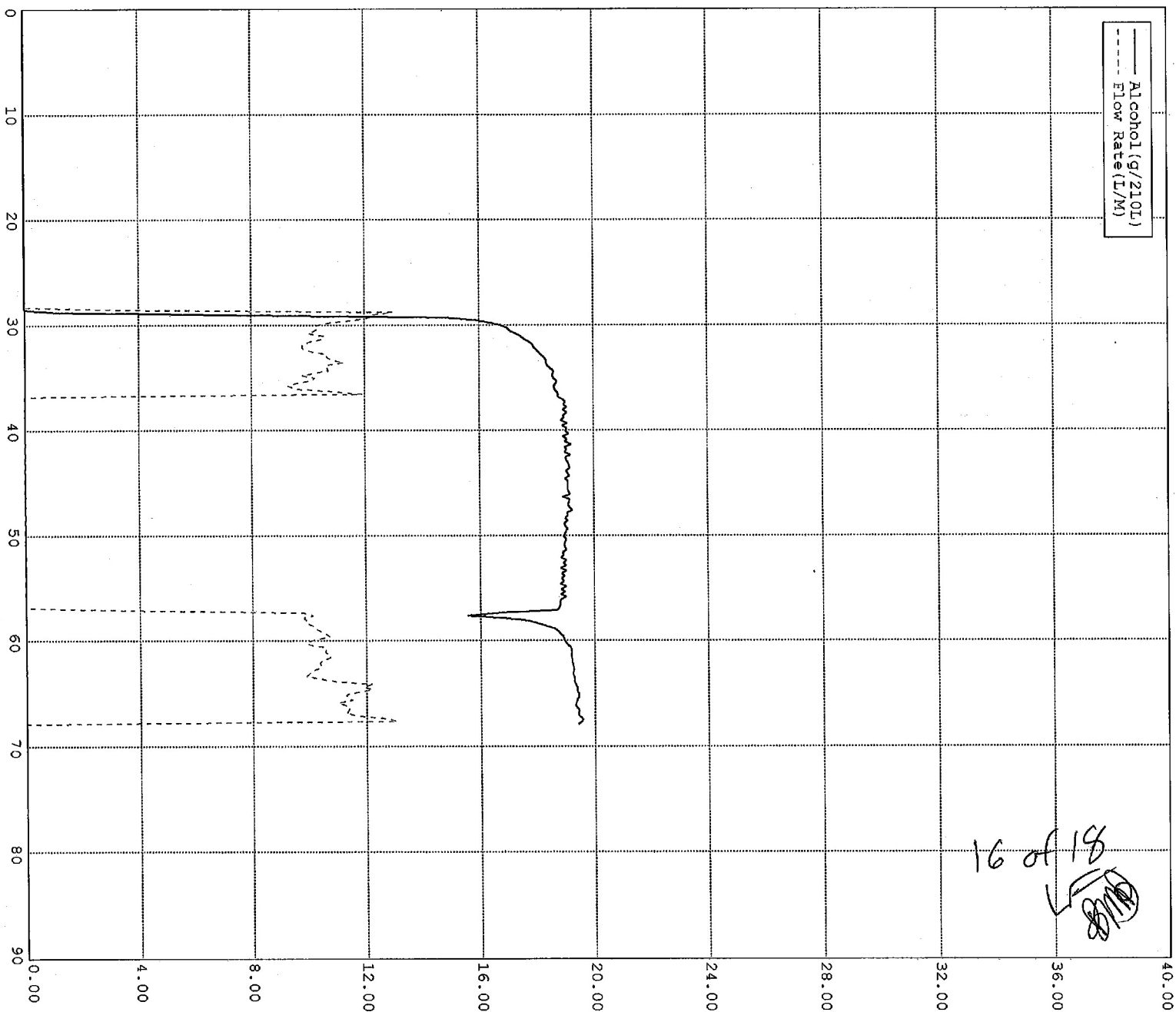
OPERATOR NAME:
 INTERFERENCE XXXX
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 ETHANOL AND ISOPROPANOL
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:23
BLANK TEST	0.000	14:23
INTERNAL STANDARD	VERIFIED	14:23
EXTERNAL STANDARD	0.078	14:23
BLANK TEST	0.000	14:24
SUBJECT SAMPLE	INTERFERENCE	14:25

WJ



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

Date: 03/24/2011
 Time: 13:57:46

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

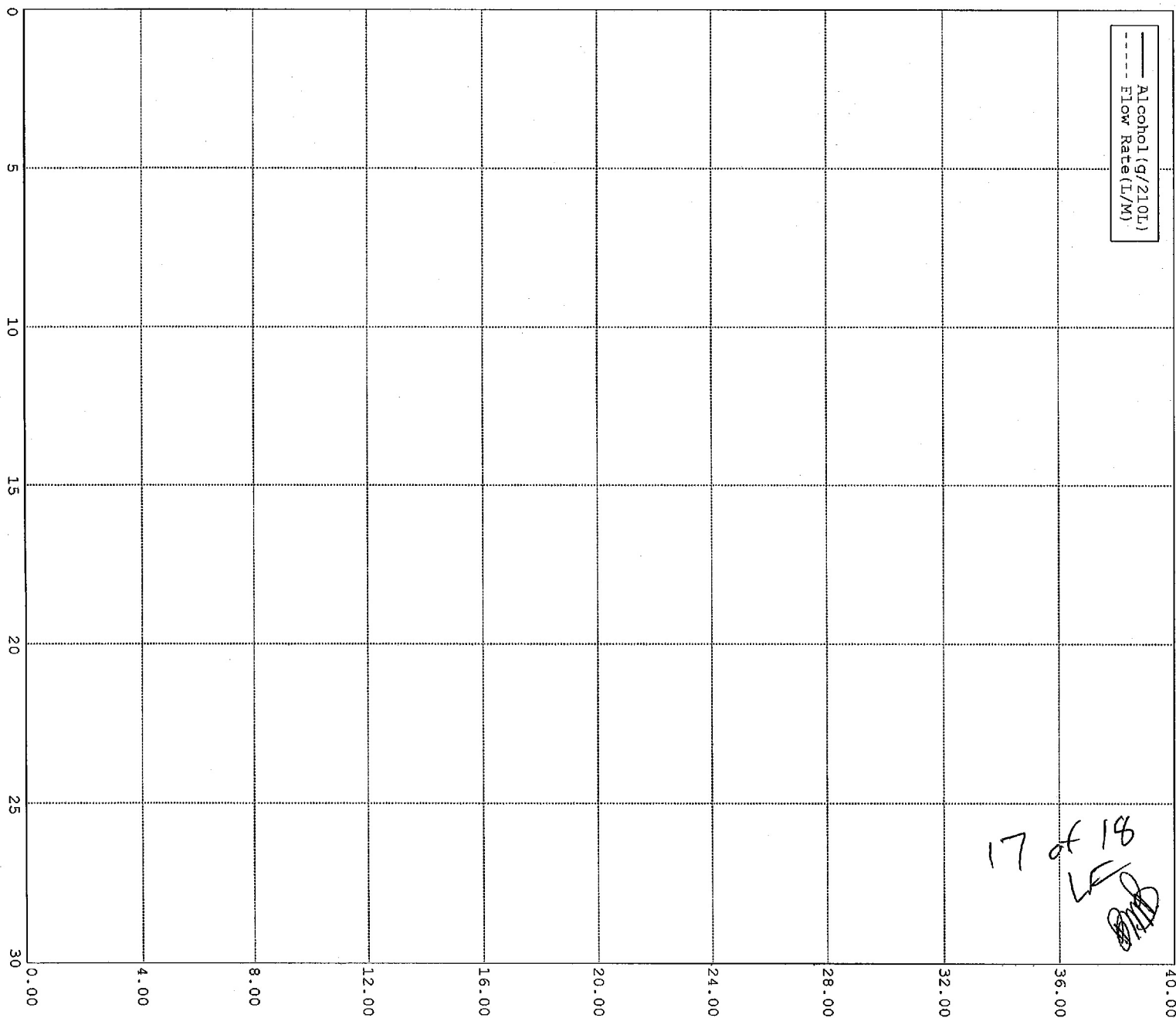
OPERATOR NAME:
 RADIO INTERFERENCE
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.47: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:58
BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.079	13:59
BLANK TEST	0.000	14:00

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

Date: 03/24/2011
 Time: 14:56:01

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

DEPT/AGENCY:
 NON-DRINKING SUBJECT TEST
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:57
BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
EXTERNAL STANDARD	0.078	14:57
BLANK TEST	0.000	14:58
SUBJECT SAMPLE	0.000	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.079	15:00
BLANK TEST	0.000	15:01

lu

